

116

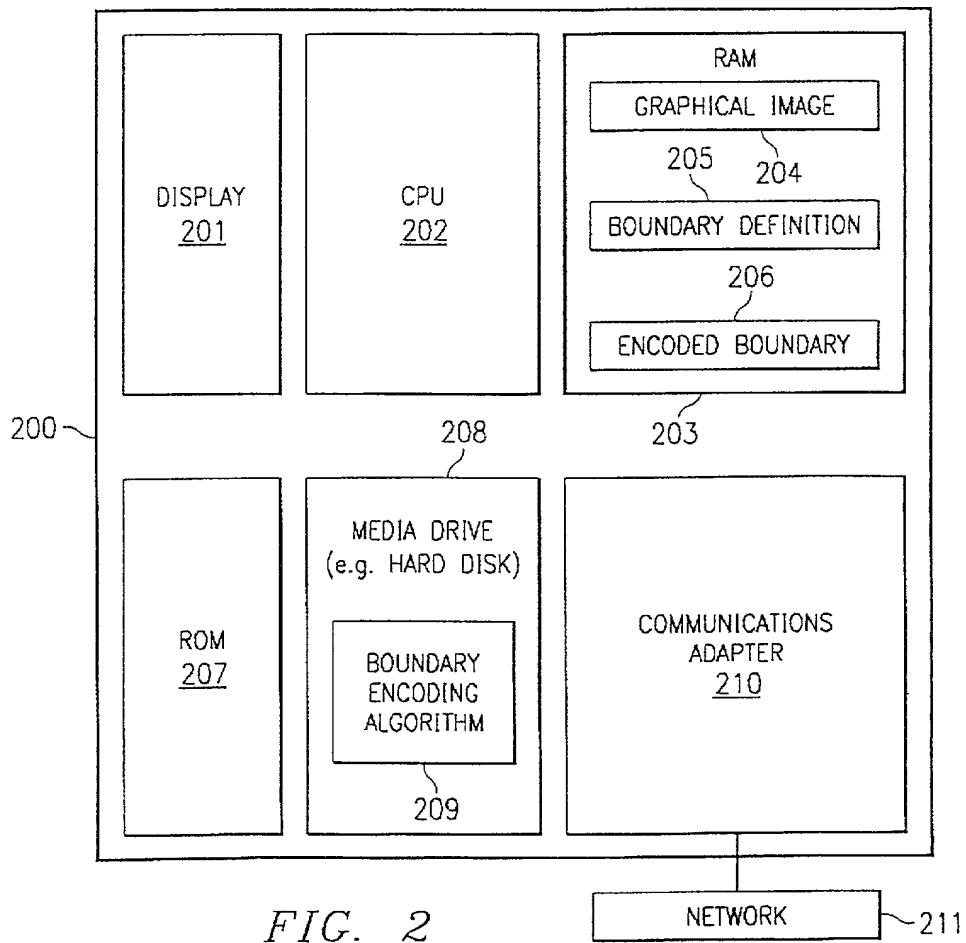
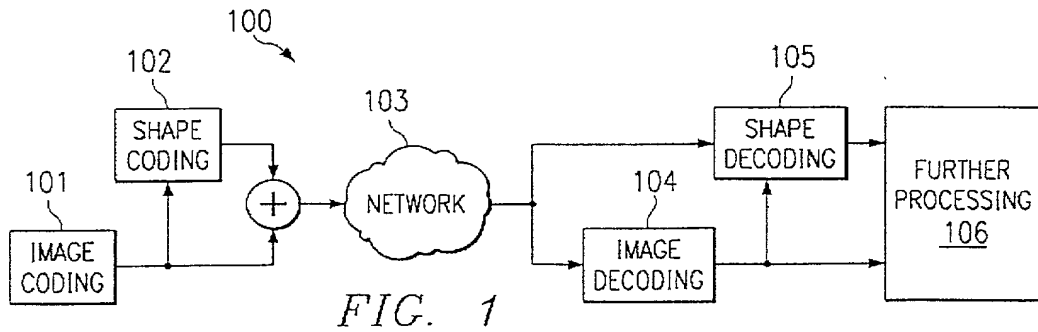


FIG. 10 "2025001"

2 / 6

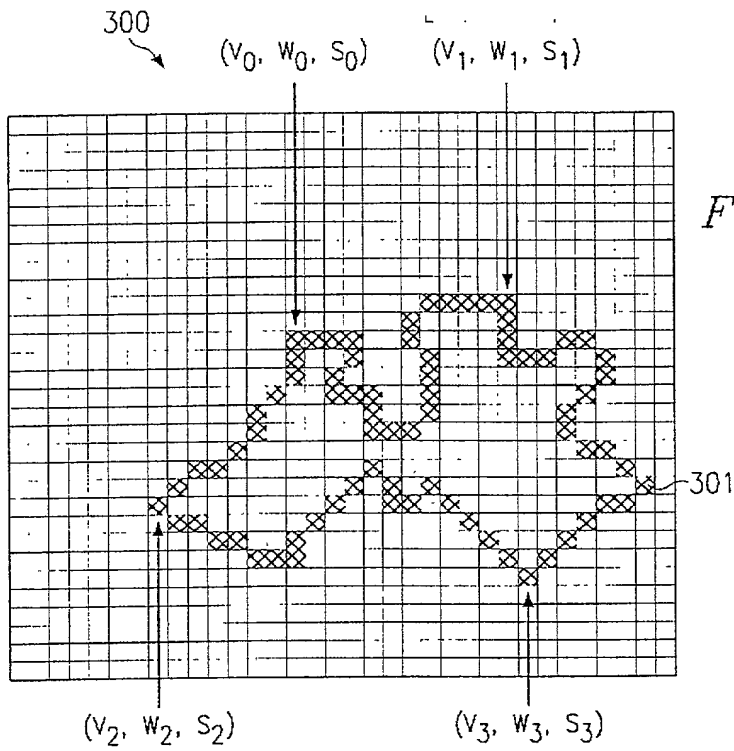


FIG. 3

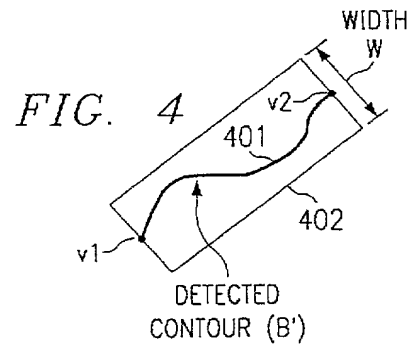


FIG. 4

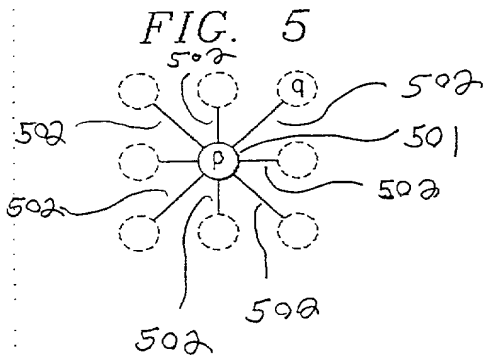
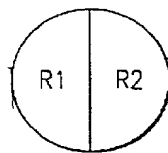


FIG. 5

FIG. 11



3/6

FIG. 6

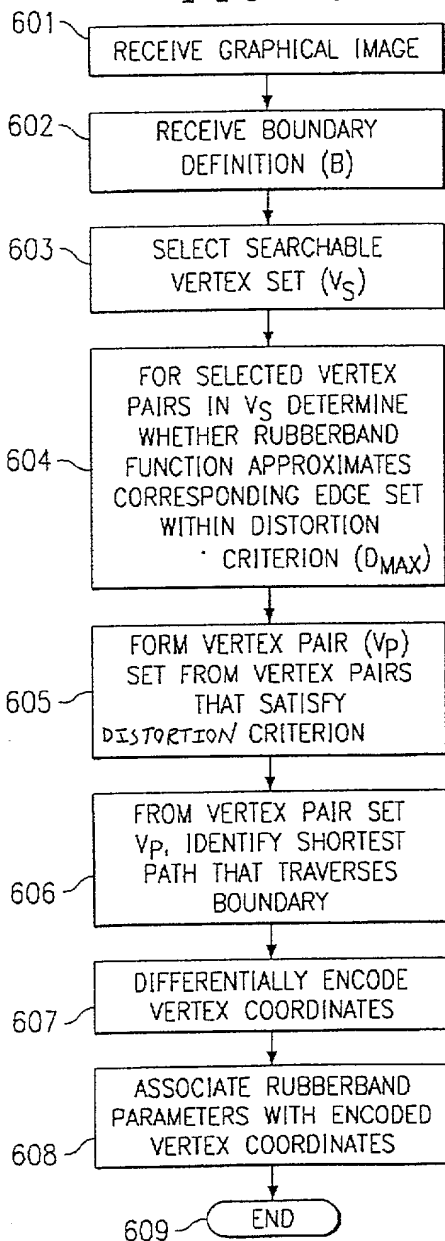


FIG. 7

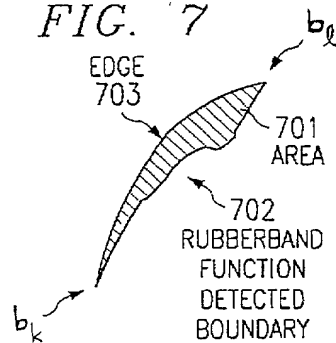
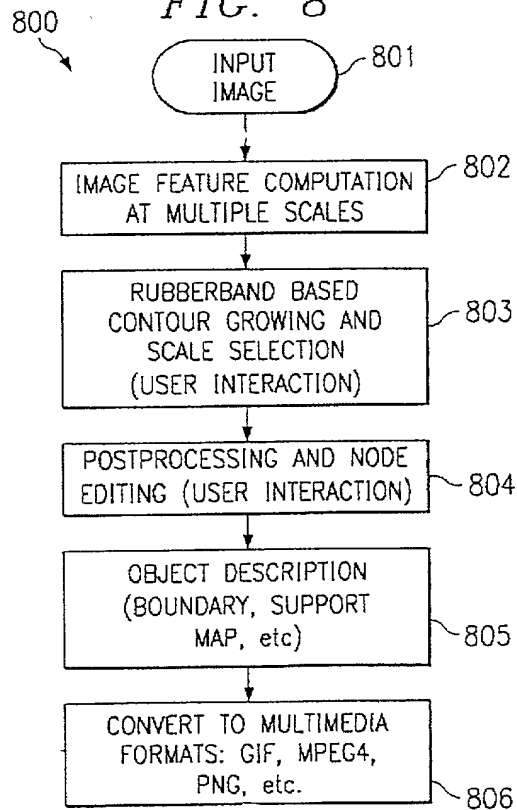


FIG. 8



4/6

FIG. 9A

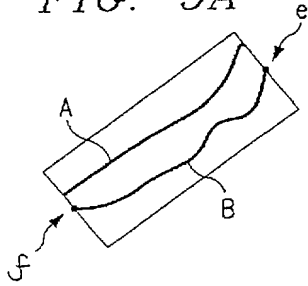


FIG. 9B

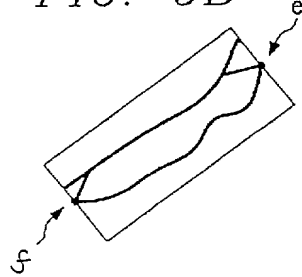
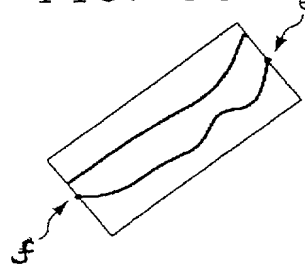


FIG. 9C



20171016294001

4 7 6 0 7 - P 5 2 3 0 5 - 1 0 1 1 1 4 6 6

5/6

FIG. 10

Input: f (start point), e (ending point), $\text{Dist}(p,q)$ (local distance definition)

Assistant Data Structure:

L1 (active list 1)

L2 (active list 2)

$C(p)$ (cumulative distance from f to p)

Output: ptr (minimal cost path pointers)

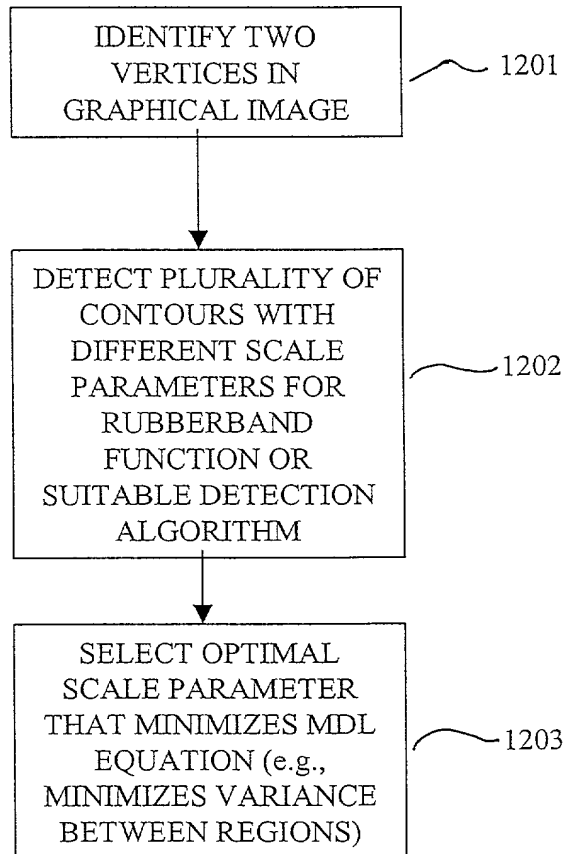
Algorithm:

```
(1001) Initialize assistant data structure (L1, L2 are set empty, and
      C to  $+\infty$ ).
(1002) Set initial threshold  $T_0$  and increasing step  $\delta_T$ .
(1003)  $T = T_0$ ;
(1004) push(L1,  $f, 0$ );
(1005) while(  $T \leq T_{\max}$  and  $C(e) \neq +\infty$  ) {
(1006)   while( num(L1) > 0 ) {
(1007)     pop( L1,  $p$  );
(1008)     flag_thresholded = 0;
(1009)     for (each  $q \in N(p)$ ) {
(1010)       if(  $\text{Dist}(p, q) > T$  ) {
(1011)         flag_threshold = 1; continue;
(1012)       }
(1013)        $d' = C(p) + \text{Dist}(p, q)$ ;
(1014)       if(  $d' < C(q)$  ) {
(1015)         if(  $q$  is in L1 ) remove( L1,  $q$  );
(1016)          $C(q) = d'$ ;
(1017)          $\text{ptr}(q) = p$ ;
(1018)         push( L1,  $q, d'$  );
(1019)       }
(1020)     } //end of for
(1021)     if( flag_threshold ) {
(1022)       push( L2,  $p, C(p)$  );
(1023)     }
(1024)   } //end of inner while
(1025)    $T = T + \delta_T$ ;
(1026)   Copy L1 from L2 and clean L2.
(1027) } //end of outer while
```

6/6

FIG. 12

1200 ~



47607-P523US-10111466